Journal of Intelligent and Robotic Systems **17:** 433–434, 1996.

Contents of Volume 17

Volume 17 No. 1 September 1996

MIOMIR VUKOBRATOVIC and ATANASKO TUNESKI / Adaptive Control of Single Rigid Robotic Manipulators Interacting with Dynamic Environment – An Overview 1–30

M. DEKHIL, T. M. SOBH, T. C. HENDERSON and R. MECKLENBURG / UPE: Utah Prototyping Environment for Robot Manipulators 31–60

GORDON G. PARKER, DANIEL J. SEGALMAN, RUSH D. ROBINETT and DANIEL J. INMAN / Decentralized Sliding Mode Control for Flexible Link Robots 61–79

K. W. LILLY and A. S. MELLIGERI / Dynamic Simulation and Neural Network Compliance Control of an Intelligent Forging Center 81–99

A. A. ABOUELSOUD, M. F. HASSAN and M. A. SULTAN / Output Regulation for Flexible-Joint Manipulators Using Partial State Measurement 101–110

Calendar of Events 111-117

Volume 17 No. 2 October 1996

JOHN THEOCHARIS and GEORGE VACHTSEVANOS / Adaptive Fuzzy Neural Networks as Identifiers of Discrete-Time Nonlinear Dynamic Systems 119–168

MOHAMED ZRIBI, SHAHEEN AHMAD and SHENGWU LUO / Adaptive Control of Redundant Multiple Robots in Cooperative Motion 169–194

PHILIPPE A. COUVIGNOU, NIKOLAOS P. PAPANIKOLOPOULOS, MIKE SULLIVAN and PRADEEP K. KHOSLA / The Use of Active Deformable Models in Model-based Robotic Visual Servoing 195–221

Volume 17 No. 3 November 1996

QING XUE, PHILIP C.-Y. SHEU, ANTHONY A. MACIEJEWSKI and STANLEY Y.P. CHEN / Planning of Collision-Free Paths for a Reconfigurable Dual Manipulator Equipped Mobile Robot 223–242

KAI-TAI SONG and CHUN-CHIEH CHEN / Application of Heuristic Asymmetric Mapping for Mobile Robot Navigation Using Ultrasonic Sensors 243–264

K.S. AL-SULTAN and M.D.S. ALIYU / A New Potential Field-Based Algorithm for Path Planning 265–282

ENRIQUE CERVERA, ANGEL P. DEL POBIL, EDWARD MARTA and MIGUEL A. SERNA / Perception-Based Learning for Motion in Contact in Task Planning 283–308

STEPHANE PERRIN and TANNEGUY REDARCE / CCD Camera Modeling and Simulation 309–325

Volume 17 No. 4 December 1996

A. YEŞILDIREK, M. W. VANDEGRIFT and F. L. LEWIS / A Neural Network Controller for Flexible-Link Robots 327–349

J. ADONGO OCHIER and P. C. MÜLLER / Control of Multi-Axis Robots with Elastic Joints via Cascade Compensation Using the Method of Exact Linearization 351–370

M. ZHIHONG and D. HABIBI / A Robust Adaptive Sliding-Mode Control for Rigid Robotic Manipulators with Arbitrary Bounded Input Disturbances 371–386

G. K. GRIGORIADIS and B. G. MERTZIOS / Implementation of the Velocities of the End-effector with the Distributed Arithmetic Architecture 387–417

M. BENNANI and F. GIRI / Dynamic Modelling of a Four-legged Robot 419–428

Book Review
Neural Fuzzy Control Systems with Structure and Parameter Learning, C. T. Lin 429–430

Index of Authors to Volume 17 431

Index of Keywords to Volume 17 432

Contents of Volume 17 433–434